

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织  
国际局



(43) 国际公布日:  
2004年12月29日(29.12.2004)

PCT

(10) 国际公布号:  
WO 2004/112469 A1

(51) 国际分类号: A01J 5/02, 7/00  
(21) 国际申请号: PCT/CN2004/000675  
(22) 国际申请日: 2004年6月23日(23.06.2004)  
(25) 申请语言: 中文  
(26) 公布语言: 中文  
(30) 优先权:  
03232495.2 2003年6月24日(24.06.2003) CN  
(71) 申请人(对除美国以外的所有指定国): 宁波市科技园区拓普健康科技有限公司(TOPPOR HEALTHTEC, INC.) [CN/CN]; 中国浙江省宁波市科技园区院士路创业大厦3-25室, Zhejiang 315040 (CN).

DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

(84) 指定国(除另有指明, 要求每一种可提供的地区保护):  
ARIPO(BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), 欧亚专利(AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), 欧洲专利(AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

根据细则4.17的声明:

- 关于申请人在国际申请日有权申请并被授予专利(细则4.17(ii))对除美国以外的所有指定国
- 关于申请人在国际申请日有权要求该在先申请的优先权(细则4.17(iii))对除美国以外的所有指定国
- 发明人资格(细则4.17(iv))仅对美国

本国际公布:

- 包括国际检索报告。

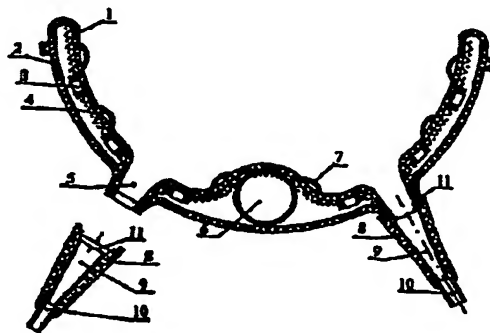
所引用双字母代码和其它缩写符号, 请参考刊登在每期PCT公报期刊起始的“代码及缩写符号简要说明”。

(72) 发明人: 及  
(75) 发明人/申请人(仅对美国): 费道伟(FEI, Daowei) [CN/CN]; 中国浙江省宁波市镇海发电厂住宅3区2幢504室, Zhejiang 315208 (CN).

(74) 代理人: 宁波诚源专利事务所有限公司(CHANNEL PATENT ATTORNEY OFFICE); 中国浙江省宁波市解放南路65号阳光大厦18-D, Zhejiang 315010 (CN).

(81) 指定国(除另有指明, 要求每一种可提供的国家保护):  
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM,

(54) Title: A MULTIFUNCTIONAL HEALTH PROTECTION DEVICE FOR UDDERS OF COWS  
(54) 发明名称: 奶牛专用多功能乳腺保健仪



(57) Abstract: The invention relates to a multifunctional health protection device for udders of cows. The device comprises a brassiere which is provided at its lower portion with circular openings (5) corresponding to four teats of a cow. The four circular opening (5) are equipped with teat cups (8). There is a hole at the fore end of each teat cup (8). The brassiere is formed by the inner and outer hoods (1, 2). A electrical heater (4) is mounted between the inner and outer hoods (1,2). Permanent magnets vibrator (6) may be provided at the centers of the four circular openings between the inner and outer hoods. An electrical conductive rubber electrode (7) is mounted on the inner wall of the inner hood. A plurality of sterilizing agent is installed in the brassiere (8). A ring seal (11) with a central hole is provided at the upper part of the brassiere. The device of the invention can implement milking, keeping constant temperature, heating therapy and vibrating massage to cows and has the functions of dredging meridian, harmonizing the flow of Qi and blood, activating blood and resolving stasis, preventing and treating mastitis of cows, enhancing the ability of lactating to increase the milk production of cows and the like.

[见续页]

WO 2004/112469 A1

BEST AVAILABLE COPY